10/069200

JC13 Od PCT/PTO 2 2 FEB 2002

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. RCA 89762

SERIAL NO.

## INFORMATION DISCLOSURE STATEMENT

APPLICANT

(Use several sheets if necessary)  U.S. PATENT DOCUMENTS  EXAMINE DOCUMENT ISSUE APPLICANT/PATENTEE CLASS SUB- FILING DATE		T111.	UNDER	Edward Allen Hall et al.						
EXAMINE INITIAL DOCUMENT ISSUE APPLICANT/PATENTEE CLASS SUB- FILING IRRIE INITIAL AN 5678211 10/1997 Badger 455 191.1  AB 4510623 4/1985 Bonneau et al. 455 181  AC 5737035 4/1998 Rotzoll 348 725  AD 6075570 6/2000 Usui et al. 348 569  AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohne et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE  AT 0389183 9/1990 EP H03J 5/02 X Yes NC 4737932 Inc. New York, yol 41, no. 4, 1 November 1995, pgs 1050-1050  AN MOCOTOLS, MC4864, Advance Information PLL TUNING CIRCUIT NICH 1996, pgs. 1-12  DATE CONSIDERED  EXAMINER  DATE:  CEASS USB- CLASS SUB- CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY), EEC. C						FILING	GRO	UP		
EXAMINE INITIAL DOCUMENT ISSUE APPLICANT/PATENTEE CLASS SUB- FILING IRRIE INITIAL AN 5678211 10/1997 Badger 455 191.1  AB 4510623 4/1985 Bonneau et al. 455 181  AC 5737035 4/1998 Rotzoll 348 725  AD 6075570 6/2000 Usui et al. 348 569  AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohne et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE  AT 0389183 9/1990 EP H03J 5/02 X Yes NC 4737932 Inc. New York, yol 41, no. 4, 1 November 1995, pgs 1050-1050  AN MOCOTOLS, MC4864, Advance Information PLL TUNING CIRCUIT NICH 1996, pgs. 1-12  DATE CONSIDERED  EXAMINER  DATE:  CEASS USB- CLASS SUB- CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY, EEC. CLASS (CLASS COUNTRY), EEC. C										
NINTIAL   NUMBER   DATE   CLASS   TAPROPRIZED						Š			· · · · · · · · · · · · · · · · · · ·	
AA 5678211 10/1997 Badger 455 191.1  AB 4510623 4/1985 Bonneau et al. 455 181  AC 5737035 4/1998 Rotzoll 348 725  AD 6075570 6/2000 Usui et al. 348 569  AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbirs 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS DATE CLASS VEB DATE NIMBER DATE DATE CLASS VEB NC CLASS VEB NC CLASS VEB NC CLASS VEB NC COUNTRY LANGUAGE COUNTRY LEC. AV OTHER INFORMATION (Including Author, Title, Pub. Date, Pertinent Pages, Country, Etc. AV Transactions on Consumer Electronics, US, IEEE, Inc. New York, Vol. 41, no. 4, 1 November 1995, pgg 1050-1060  MOLOTOLA MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHZ AV VOl. 41, no. 4, 1 November 1995, pgg 1050-1060  MOLOTOLA MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 1996, pgg. 1-12  BABBILTED BY: KUNIYUKI AKIYAMA  AR ARGONOL: Advance Information PLL TUNING CIRCUIT WITH 1 1996, pgg. 1-12  BABBILTED BY: KUNIYUKI AKIYAMA  AR ARGONOL: Advance Information PLL TUNING CIRCUIT WITH 1 1996, pgg. 1-12	EXAMINE INITIAL				APPLICANT/PATENTEE		CLASS			
AC 5737035 4/1998 Rotzoll 348 725  AD 6075570 6/2000 Usui et al. 348 569  AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE  AT 0389183 9/1990 EP  AT 0389183 9/1990 EP  AT 0389183 9/1990 EP  AU 0457932 11/1991 EP (see ref. AS) H03J 5/02  AN MOTORDATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. 17. Transactions on Consumer Electronics, US, IEEE, Inc. New York, Vol. 41, No. 4, November 1995, pgg 1050-1060  AN MOTORDA MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GEL AZ 2. 2002  EXAMINER  BATE CONSIDERED  DATE: KUNIYUKI AKIYAMAR ARIYAMAR REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  CALSS DATE:  AUD DATE:  KUNIYUKI AKIYAMAR ARIYAMAR REG. REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  CALST DATE:  AUD DATE:  KUNIYUKI AKIYAMAR ARIYAMAR ARIYAMAR REG.NO.:  AUD ATE CONSIDERED		AA			Badger	!	455	<del> </del>	IF APPI	ROPKIAI.
AD 6075570 6/2000 Usui et al. 348 569  AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  CLASS SUB- TRANSLATI CLASS SUB- TRANSLATI CLASS Yes NC 91 AU 0457932 11/1991 EP (see ref. AS) HO3J 5/02  AU 0457932 11/1991 EP (see ref. AS) HO3J 5/02  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Bleetronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHZ PRESCALER AND D/A CONVENTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12		AB	4510623	4/1985	Bonneau et al.		455	181		
AE 5898398 4/1999 Kumai 341 176  AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT DUBL COUNTRY CLASS SUBTRANSLATI CLASS Yes No. 300 AU 0457932 11/1991 EP (see ref. AS) H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/02 AU 0457932 11/1991 EP (see ref. AS)  OTHER INFORMATION (Including Author, Title, Pub. Date, Pertinent Pages, Country, Etc. Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, Vol. 41, no. 4, 1 November 1995, pgs 1050-1060  MOtorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH I GHZ PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNING CIRCUIT WITH I 1996, pgs. 1-12  EXAMINER  BUBLITTED BY: KUNIYUKI AKIYAMAR ARCHIVAR AND		AC	5737035	4/1998	Rotzoll		348	725		
AF 5898608 4/1999 Yokoyama et al. 702 107  AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. Transactions on Consumer Electronics, US, IEEE, Inc. New York, Vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC4864, Advance Information PLL TUNING CIRCUIT WITH 1 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  AW GH2 PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE: KUNIYUKI AKIYAMA	***************************************	AD	6075570	6/2000	Usui et al.		348	569		
AG 5828266 10/1998 Couet 329 325  AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  NUMBER DATE COUNTRY CLASS SUB- TRANSLATI YES NOT TRANSLATI YES		AE	5898398	4/1999	Kumai		341	176	ļ	
AH 6035185 3/2000 Dobrovolny et al. 455 266  AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  MMCOTORIA, MARCHON DATE CONSIDERED  DATE: SUBMITTED BY:  KUNIYUKI AKIYAMA ARANGE INFORMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE: SUBMITTED BY:  KUNIYUKI AKIYAMA ARANGE INFORMATIC TUNER ALIGNMENT, 1996, pgs. 1-12		AF	5898608	4/1999	Yokoyama et al.		702	107		
AI 5724546 3/1998 Tsutsui 395 444  AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS NO NUMBER DATE CLASS NO N		AG	5828266	10/1998	Couet		329	325 .		
AJ 5561461 10/1996 Landis et al. 348 725  AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATI CLASS Yes No. 389183 9/1990 EP H03J 5/02  AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE:  CUNTYUKI AKIYAMA  AU ARIYAMA  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  CAMBER AND DATE:  CUNTYUKI AKIYAMA  AU ARIYAMA		АН	6035185	3/2000	Dobrovolny et al.		455	266		
AK 5488711 1/1996 Hewitt et al. 395 430  AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL COUNTRY  NUMBER DATE  AT 0389183 9/1990 EP  AU 0457932 11/1991 EP (see ref. AS) H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  AV Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  MOTORIAL MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  CUMNIYUKI AKIYAMA  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  AM J ALION AKIYAMA  AN J ALION AKIYAMA  AN J ALION AKIYAMA  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  AND JATE:  REG.NO.:  AND JATE:  CLASS SUB-  TRANSLATI  AND JATE:  AN		AI	5724546	3/1998	Tsutsui		395	444		
AL 5371709 12/1994 Fisher et al. 365 226  AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT DATE CLASS SUBCLASS YES NOWN AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  AV Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  REG.NO.:  REG.NO.:  REG.NO.:  AND 502019 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  REG.NO.:  REG.NO.:  REG.NO.:  AND 502019 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  REG.NO.:  REG.NO.:  AND 502019 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  AND 402020 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE:  REG.NO.:  REG.NO.:  REG.NO.:  AND 402020 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-22  DATE:  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  AND 402020 AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12		AJ	5561461	10/1996	Landis et al.		348	725		
AM 5115316 5/1992 Gurley et al. 358 188  AN 5020139 5/1991 Keenan 455 151  AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL. COUNTRY CLASS SUB- TRANSLATI NUMBER DATE CLASS Yes NC AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE CONSIDERED  SUBMITTED BY: KUNIYUKI AKIYAMA  REG.NO.:  REG.NO.:  REG.NO.:  REG.NO.:  AND 4550 151  AND 4570 151  AND 4570 151  AND 4570 151  AND 570 151  AND 5		AK	5488711	1/1996	Hewitt et al.		395	430		
AN 5020139 5/1991 Keenan 455 151  A0 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL. COUNTRY CLASS SUB- CLASS Yes No. 10 AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  REG.NO.:  REG.NO.:  ADATE:  KUNIYUKI AKIYAMAN REG.NO.:  AND ADATE:  KUNIYUKI AKIYAMAN REG.NO.:  AND ADATE:  ADATE:  AND ADATE:  AND ADATE:  ADAT		AL	5371709	12/1994	Fisher et al.		365	226		
AO 4926264 5/1990 Ohno et al. 358 349  AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATI CLASS YES NC AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  DATE: KUNIYUKI AKIYAM		AM	5115316	5/1992	Gurley et al.		358	188		
AP 4914517 4/1990 Duffield 358 191.1  AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS YES NOT AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.:  REG.NO.:  APPLICATION OF TRANSLATI CLASS SUB-TRANSLATI CLASS YES NO.  TRANSLATI CLA		AN	5020139	5/1991	Keenan		455	151		
AQ 4768229 8/1988 Benjamin et al. 380 20  AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL. COUNTRY CLASS SUB- TRANSLATI YES NOTED TO THE NUMBER DATE SUB- TRANSLATI TO THE SUB- TR		AO	4926264	5/1990	Ohno et al.	-	358	349		
AR 4737993 4/1988 DeVilbiss 455 180  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL. COUNTRY CLASS SUBTRANSLATI CLASS YES NOT AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc. Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH I GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.:  REG.NO.:  REG.NO.:  AN DOTE TO STAND DATE:  REG.NO.:  AN DATE:  AN DAT		AP	4914517	4/1990	Duffield		358	191.1		
AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  DOCUMENT PUBL. COUNTRY  NUMBER DATE  AT 0389183 9/1990 EP  AU 0457932 11/1991 EP (see ref. AS)  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH I GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  REG.NO.:  REG.NO.:  AS 5204645 4/1993 Hohmann (see ref. AU) 334 1  FOREIGN PATENT DOCUMENTS  CLASS SUB- TRANSLATI  CLASS Ves No.  CLASS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLASS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLASS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLAS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLASS YES No.  CLASS SUB- TRANSLATI  CLASS YES No.  CLAS YES NO.  CLASS YES NO.  CLAS YES NO.  CLASS YES NO.  CLASS YES NO.  CLASS YES NO.  CLASS YE		AQ	4768229	8/1988	Benjamin et al.	· ·	380	20		
FOREIGN PATENT DOCUMENTS    DOCUMENT   PUBL   COUNTRY   CLASS   SUB   TRANSLATI     NUMBER   DATE   CLASS   Yes   No.     AT   0389183   9/1990   EP   H03J   5/02     AU   0457932   11/1991   EP (see ref. AS)   H03J   5/24   X     OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.     AV   Transactions on Consumer Electronics, US, IEEE, Inc. New York,     vol. 41, no. 4, 1 November 1995, pgs 1050-1060     Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1     GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT,     1996, pgs. 1-12   DATE CONSIDERED     CLASS SUB- TRANSLATI   TRANSLATI     TRANSLATI   CLASS   Yes   No.     CLASS   SUB- TRANSLATI   TRANSLATI     CLASS   Yes   No.     CLASS   SUB- TRANSLATI		AR	4737993	4/1988	DeVilbiss	-	455	180		
DOCUMENT NUMBER DATE  AT 0389183 9/1990 EP  AU 0457932 11/1991 EP (see ref. AS)  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH I GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.:  KUNIYUKI AKIYAMATA PAGE AND DATE:  43,314		AS	5204645	4/1993	Hohmann (see ref.	AU)	334	1		
NUMBER DATE  AT 0389183 9/1990 EP  AU 0457932 11/1991 EP (see ref. AS)  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.:  KUNIYUKI AKIYAM						TS				
AT 0389183 9/1990 EP H03J 5/02  AU 0457932 11/1991 EP (see ref. AS) H03J 5/24 X  OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE:  KUNIYUKI AKIYAM  REG.NO.:  43,314  AU DATE:  Automatic Tuner Alignment System", IEEE  Transactions on Consumer Electronics, US, IEEE, Inc. New York, Vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 DATE CONSIDERED  DATE:  KUNIYUKI AKIYAM					COUNTRY		CLASS			
OTHER INFORMATION (Including Author, Title, Pub.Date, Pertinent Pages, Country, Etc.  Y. Deville, "An Automatic TV Tuner Alignment System", IEEE Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 AW GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.: KUNIYUKI AKIYAM  REG.NO.: 43,314  DATE:		AT	<del>-</del>		EP		H03J		168	MO
Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  AV Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  CUBMITTED BY: KUNIYUKI AKIYAM  REG.NO.: 43,314  AUTOMATIC TUNER ALIGNMENT, DATE: 43,314		AU	0457932	11/1991	EP (see ref. AS)		H03J	5/24	х	
Y. Deville, "An Automatic TV Tuner Alignment System", IEEE  AV Transactions on Consumer Electronics, US, IEEE, Inc. New York, vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  CUBMITTED BY: KUNIYUKI AKIYAM  REG.NO.: 43,314  AUTOMATIC TUNER ALIGNMENT, DATE: 43,314	OTHER	INF	ORMATION (Inc	cluding Aut	hor, Title, Pub.Date,	Pertin	ent Pac	es, Cou	intry,	Etc.)
vol. 41, no. 4, 1 November 1995, pgs 1050-1060  Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH 1 GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  DATE CONSIDERED  REG.NO.: KUNIYUKI AKIYAM			Y. Devi	lle, "An <i>A</i>	Automatic TV Tuner A	Alignme	nt Sys	tem",	IEEE	
Motorola, MC44864, Advance Information PLL TUNING CIRCUIT WITH I GHz PRESCALER AND D/A CONVERTERS FOR AUTOMATIC TUNER ALIGNMENT, 1996, pgs. 1-12  EXAMINER  DATE CONSIDERED  REG.NO.:  KUNIYUKI AKIYAM  A3,314  DATE:  43,314		AV						Inc. N	ew Yor	ck,
DATE CONSIDERED  SUBMITTED BY:  KUNIYUKI AKIYAMA  REG.NO.:  43,314  Reb. 22, 2002		AW	Motorol	a, MC44864	, Advance Informat	ion PLL	TUNIN			
SUBMITTED BY:  KUNIYUKI AKIYAMA  REG.NO.:  43,314  Reb. 22, 2002										
KUNIYUKI AKIYAMA 43,314 Fieb 22, 2002	EXAMINE	₹		11	DATE CONS	SIDERED				
KUNIYUKI AKIYAMA 43,314 Fieb 22, 2002			/_							
				X Total			Tieb			
oop, or comen report according				attached			7	<del></del>		